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03 September 2013

Jim Fleer
Oxford Environmental & Safety, Inc
14348 Nieman Rd.
Overland Park, KS 66221

RE: Arkwood Monthly Sampling
SDG Number: 1308331

Enclosed are the results of analyses for samples received by the laboratory on 26-Aug-13 08:15. If you have any questions concerning this report, please feel free to contact me.

Sample Receipt Information:

Custody Seals	✓
Containers Correct	✓
COC/Labels Agree	✓
Preservation Confirmed	✓
Received On Ice	
Temperature on Receipt	9.0°C

Sincerely,

A handwritten signature in blue ink that reads "Norma James".

Norma James
President

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CASE NARRATIVE

Sample Delivery Group - 1308331

Qualified analytical and/or quality control results are discussed below:

Temperature Excursion (ET): The samples in this sample delivery group were received at 9 degrees Centigrade which exceeded 6 degrees Centigrade. The results of all analyses requiring temperature as a preservative were qualified as "estimated" (ET). Affected analyses: Semivolatiles (Pentachlorophenol).

Semivolatiles Analysis:

Matrix Spike (MS) Failure: Pentachlorophenol failed to recover within acceptance criteria in the MS sample. The recovery was qualified by "%D1" in the quality control section of the final report. Pentachlorophenol was qualified as "estimated" (E20) in the parent sample, 1308331-01.

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ANALYTICAL RESULTS

Lab Number: 1308331-01
Sample Name: Mouth
Date/Time Collected: 8/23/13 10:50
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	65.4	E20, ET	8/29/13 14:55	A308365	8270D
2,4,6-Tribromophenol [surr]	%	96.6		8/29/13 14:55	A308365	8270D
2-Fluorophenol [surr]	%	48.4		8/29/13 14:55	A308365	8270D
Phenol-d5 [surr]	%	31.3		8/29/13 14:55	A308365	8270D

ANALYTICAL RESULTS

Lab Number: 1308331-02
Sample Name: Weir
Date/Time Collected: 8/23/13 10:30
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	<u>Qualifier(s)</u>	<u>Date/Time Analyzed</u>	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	< 1.00	ET	8/29/13 15:16	A308365	8270D
2,4,6-Tribromophenol [surr]	%	89.0		8/29/13 15:16	A308365	8270D
2-Fluorophenol [surr]	%	46.4		8/29/13 15:16	A308365	8270D
Phenol-d5 [surr]	%	30.9		8/29/13 15:16	A308365	8270D

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QUALITY CONTROL RESULTS

Semivolatiles - Quality Control Analyzed: 29-Aug-13 15:38 By: TB

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A308365 - 3510C Modified

Blank (A308365-BLK1)

Prepared & Analyzed: 29-Aug-13

Pentachlorophenol	ND	1.00	ug/L							
Surrogate: 2,4,6-Tribromophenol	32.3		"	40.0		80.7	26-130			
Surrogate: 2-Fluorophenol	18.5		"	40.0		46.4	10-80			
Surrogate: Phenol-d5	12.6		"	40.0		31.6	10-58			

LCS (A308365-BS1)

Prepared & Analyzed: 29-Aug-13

Pentachlorophenol	29.8	1.00	ug/L	40.0		74.6	69-129			
Surrogate: 2,4,6-Tribromophenol	34.8		"	40.0		87.1	26-130			
Surrogate: 2-Fluorophenol	17.4		"	40.0		43.6	10-80			
Surrogate: Phenol-d5	12.2		"	40.0		30.5	5-58			

Matrix Spike (A308365-MS1)

Source: 1308331-01

Prepared & Analyzed: 29-Aug-13

Pentachlorophenol	83.8	1.00	ug/L	40.0	65.4	46.1	50-139			%D1
Surrogate: 2,4,6-Tribromophenol	35.5		"	40.0		88.6	26-130			
Surrogate: 2-Fluorophenol	18.2		"	40.0		45.6	10-80			
Surrogate: Phenol-d5	12.6		"	40.0		31.5	10-58			

Matrix Spike Dup (A308365-MSD1)

Source: 1308331-01

Prepared & Analyzed: 29-Aug-13

Pentachlorophenol	89.4	1.00	ug/L	40.0	65.4	60.2	50-139	6.52	27	
Surrogate: 2,4,6-Tribromophenol	39.2		"	40.0		98.0	26-130			
Surrogate: 2-Fluorophenol	20.8		"	40.0		52.0	10-80			
Surrogate: Phenol-d5	14.4		"	40.0		36.0	10-58			

QUALIFIER(S)

- *%D1: Matrix Spike and/or Matrix Spike Duplicate Percent Recovery Does Not Meet Laboratory Acceptance Criteria
- *E20: Estimated Result Due to Matrix Spike and/or Matrix Spike Duplicate Failure; This sample was used as the "parent sample" in MS/MSD prep.
- *ET: Estimated Result; Temperature Upon Receipt Exceeded 6 Degrees Centigrade

All Analysis performed according to EPA approved methodology when available :

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods.

Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:

Norma James
President

[illegible]